

KCP 193-1

Approved 24 May 1966

25X1



(007 20177)

Lockheed Aircraft Corp.		ENGINEERING STUDY <input checked="" type="checkbox"/>		LAC 193-1						
DATE 22 APRIL 1966		AFFECTS: WSPO <input type="checkbox"/>		PROJECT <input checked="" type="checkbox"/>						
NAME OF MAJOR COMPONENT		PART OR LOWEST SUBASSEMBLY		PART NO. & MODEL OR TYPE						
TITLE OF PROPOSAL: FLT. TEST - SENSITIVE TAPE ALTIMETER & AIR DATA COMPUTER										
NATURE OF PROPOSAL: SEE PAGE 2										
REASON FOR PROPOSAL: TO EVALUATE PILOT PRESENTATION OF TWO DIFFERENT ALTIMETER PRESENTATIONS; ESTABLISH INDICATOR - AIR DATA COMPUTER (ADC) ACCURACIES, AND UTILIZE OTHER ADC OUTPUT.										
ES	ESTIMATED COST AND TIME INVOLVED: SP-1923									
	ADDITIONAL FUNDING REQUIRED: SP-1923 (YES)									
CP	ESTIMATED COST FOR KITS OR PARTS:									
	ADDITIONAL FUNDING REQUIRED:									
ITEMS AFFECTED BY PROPOSAL:										
SAFETY	MISSION EFFEC- TIVENESS	PERFORM- ANCE	OPERATING PROCEDURE	INTER- CHANGE- ABILITY	WEIGHT OR WEIGHT & BALANCE	TOOLS & SUPPORT EQUIPMENT	MAINTENANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTENANCE MANUAL
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD										
SOURCE OF PARTS FOR KIT ADP/VENDOR/GFAE				AVAILABILITY _____ WEEKS AFTER APPROVAL SEE PAGE 3						
DISPOSITION OF SPARES AFFECTED NONE										
INITIATED BY: CUSTOMER				APPROVED: WSPO <i>Signal CRib</i>						

NATURE OF PROPOSAL:

PHASE I

INSTALL & FLIGHT TEST (1 FLIGHT) AT CONTRACTORS FACILITY:

1. BENDIX AIR DATA COMPUTER.
2. BENDIX TYPE 10900-1A-1-A1 TAPE ALTIMETER.
3. KOLLSMAN A36932-10-003 POINTER-COUNTER ALTIMETER.
4. AFCS MACH CONTROL FROM ADC DELTA MACH.
5. TOTAL TEMPERATURE PROBE.
6. A/O PANEL FOR FOLLOWING:
 - a. TAPE ALTIMETER
 - b. POINTER COUNTER ALTIMETER
 - c. STANDARD BAROMETRIC ALTIMETER
 - d. ADC CALIBRATED AIR SPEED
 - e. STANDARD INDICATED AIR SPEED
 - f. ADC TRUE AIR SPEED
 - g. ADC MACH
 - h. EVENT LIGHT FOR COORDINATION WITH EAFB ASKANIA
CAMERA RANGE
 - i. CLOCK
 - j. SENSITIVE OAT

The altimeters are being obtained from GFE stock and will require calibration, and possibly some refurbishment, prior to flight. The ADC has been obtained on a loan basis from Bendix. A total temp. probe is available at the contractors.

PHASE II TO BE CONDUCTED AT EAFB

TEST PROGRAM TO BE ACCOMPLISHED IN TWO PARTS

PART 1: Four flights with all equipment mounted on A.O. panel and hatch mounted camera to establish data required to produce mach compensated cam. (Flights made with flat cam.)

PART 2: Three flights to determine the degree of accuracy obtained from the compensated system and to allow drivers time to evaluate altimeter presentations during simulated penetrations and let downs.

A short time span will be required between Part 1 and Part 2 to allow the vendor time to compute the cam shape and then cut the cam.

PRICE BREAKDOWN:

PHASE I

Fabrication & installation of parts, equipment, and instrumentation
in Art. #348

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PHASE II

ADP support - engineering & flight test of Art. #348 during
Customer conducted testing at EAFB

TOTAL ESTIMATED PROGRAM

NOTE: We are proceeding with Phase I per telecon
4-8-66 - Ref: ADP - Van Nuys Msg #1830

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SCHEDULE

6 - 13 MAY 1966
16 - 20 MAY 1966
23 - 27 MAY 1966
30 MAY - 10 JUNE 1966
13 - 22 JUNE 1966

KIT INSTALL
FLTS. NO. 1 & 2
FLTS. NO. 3 & 4
FAB CAM
FLTS. NO. 5, 6 & 7

a Contractors
a Contractors & EAFB
a EAFB
a EAFB